

Expert Consultation and Meeting on Enhancing Geospatial Information Management Arrangements and Accelerating Implementation of the Sustainable Development Goals, and the Sub-regional Workshop on the United Nations Integrated Geospatial Information Framework (UN-IGIF) for Central America and neighbouring Latin American countries

Implementing geospatial strategies: challenges and opportunities

Data, Standards and Innovation

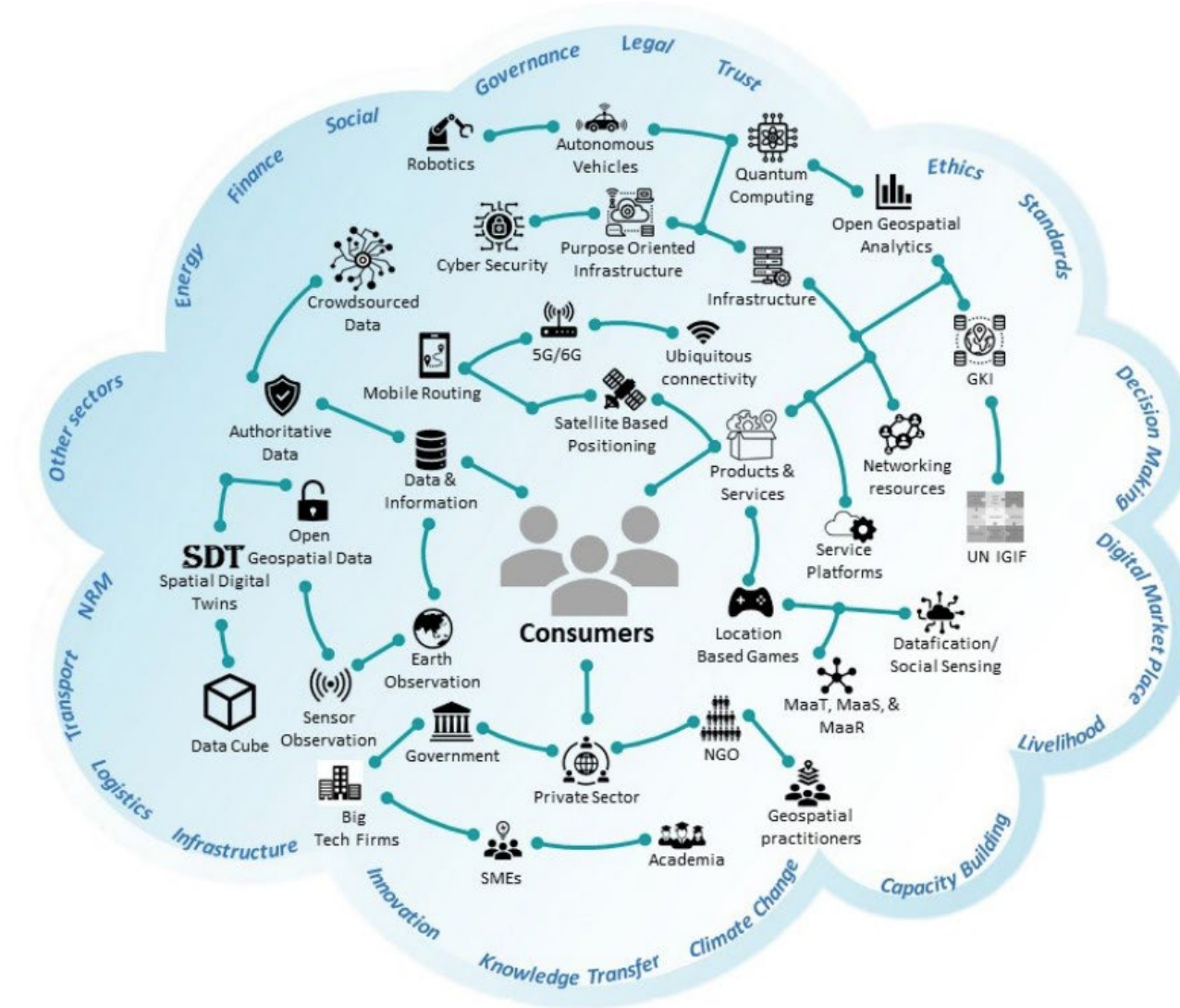
Panama City, Panama
1-5 December 2025



Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

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Geospatial Ecosystems

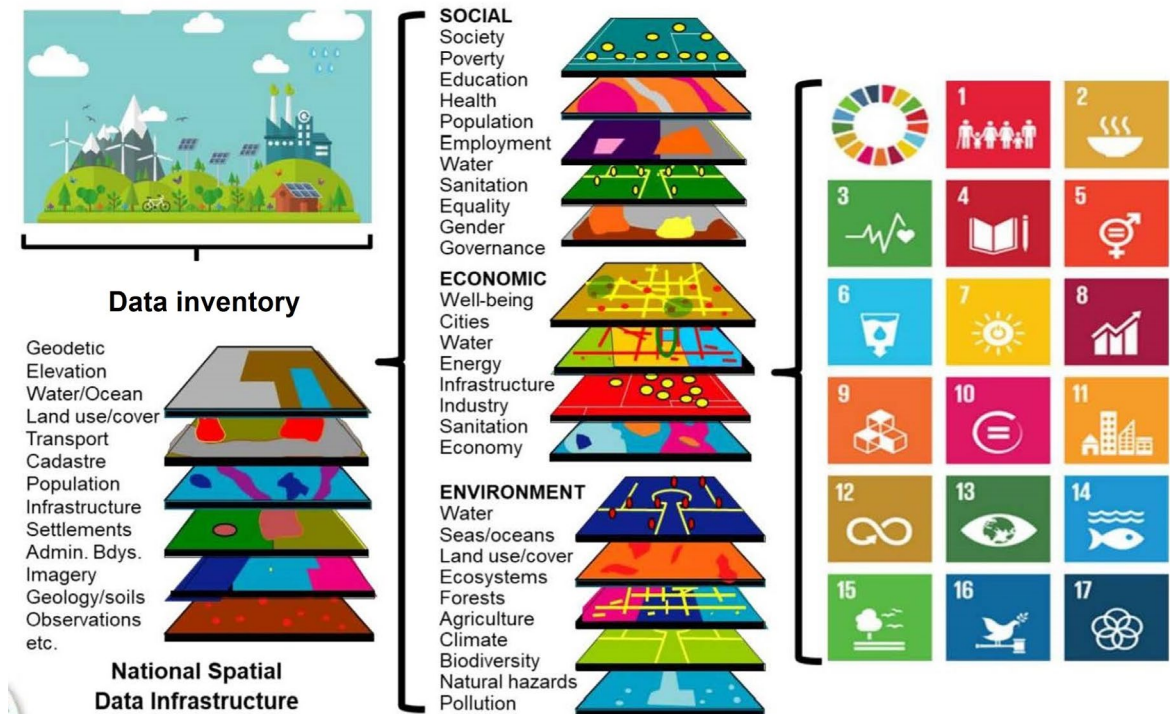


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Data



Enabling data custodians to meet their data management, sharing and reuse obligations to government and the user community through the execution of well-defined data supply chains for organizing, planning, acquiring, aggregating, integrating, curating, analyzing, publishing and archiving geospatial information.



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Do we have an organized data inventory?

What are the main obstacles to improving gaps in data generation and availability?

What digital innovation methodologies can be implemented to ensure the quality and consistency of geospatial data?

What difficulties have you encountered in implementing data standards?



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Standards



Enabling an efficient and consistent approach for different information systems to be able to discover, manage, communicate, exchange and apply geospatial information for a multitude of uses, improved understanding and decision making.



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What institutional and technological mechanisms are needed to achieve real interoperability between national, municipal, and sectoral platforms?

How can interoperability be balanced with concerns about privacy, information security, and data sovereignty?

What best practices can improve data production and lifecycle management?



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Innovation



Enabling leverage the latest and cost-effective technologies, innovations and process improvements so that governments, businesses, academia, and communities, no matter what their current situation, may advance or leapfrog to modern geospatial information management practices and services.



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How can we strengthen the technical capabilities of public sector personnel to ensure that the modernization of geospatial systems is sustainable over time?

What role should technologies such as AI, machine learning, IoT sensors, drones, and digital twins play in modernizing the geospatial ecosystem?

How can the adoption of these technologies be encouraged in institutions facing technical and budgetary capacity gaps?



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